

## UNITED STATES DEPARTMENT OF COMMERCE

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APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. 09/434,498 11/05/99 DATE М ASAIN0058 **EXAMINER** 000113 IM22/0320 GRIFFIN BUTLER WHISENHUNT & SZIPL LLP HESS, B SUITE PH-1 ART UNIT PAPER NUMBER 2300 NINTH STREET SOUTH ARLINGTON VA 22204-2396 1774 **DATE MAILED:** 03/20/01

Please find below and/or attached an Office communication concerning this application or proceeding.

**Commissioner of Patents and Trademarks** 

	The state of the s		
Office Asking Commence	Application No. Applicant(s) Date et al.		
Office Action Summary	Examiner Group Ar Bruce Hess 17		
The MAILING DATE of this communication ap	pears on the cover sheet beneath the correspond	ence address	
Period for Response	_		
A SHORTENED STATUTORY PERIOD FOR RESPONSE MAILING DATE OF THIS COMMUNICATION.	S SET TO EXPIRE MONTH(S) FROM	<i>I</i> THE	
<ul> <li>Extensions of time may be available under the provisions of 37 C from the mailing date of this communication.</li> <li>If the period for response specified above is less than thirty (30)</li> <li>If NO period for response is specified above, such period shall, be a failure to respond within the set or extended period for response</li> </ul>	ays, a response within the statutory minimum of thirty (30) days to default, expire SIX (6) MONTHS from the mailing date of this	s will be considered timely.	
Status			
Responsive to communication(s) filed on	99 (Preb Andt.)	•	
☐ This action is FINAL.			
<ul> <li>Since this application is in condition for allowance ex accordance with the practice under Ex parte Quayle,</li> </ul>	ept for formal matters, <b>prosecution as to the merits</b> 1935 C.D. 1 1; 453 O.G. 213.	is closed in	
Disposition of Claims			
> Claim(s)	is/are pending in	the application.	
Of the above claim(s)	is/are withdrawn t	rom consideration.	
☐ Claim(s)	is/are allowed.		
Sclaim(s) 1-5	is/are rejected.		
□ Claim(s)	is/are objected to	is/are objected to.	
□ Claim(s)		triction or election	
Application Papers	requirement.		
☐ See the attached Notice of Draftsperson's Patent Draftsperson's	wing Review, PTO-948.		
☐ The proposed drawing correction, filed on	is _ approved _ disapproved.		
☐ The drawing(s) filed on is/are of	•		
☐ The specification is objected to by the Examiner.			
$\hfill\Box$ The oath or declaration is objected to by the Examin	т.		
Priority under 35 U.S.C. § 119 (a)-(d)			
★ Acknowledgment is made of a claim for foreign prior ★ All □ Some* □ None of the CERTIFIED copie			
≿received.			
<ul> <li>received in Application No. (Series Code/Serial N</li> <li>received in this national stage application from the</li> </ul>	•		
*Certified copies not received:			
Attachment(s)			
☐ Information Disclosure Statement(s), PTO-1449, Pag	er No(s) ☐ Interview Summary, PTO-	413	
Notice of References Cited, PTO-892	□ Notice of Informal Patent	Application, PTO-152	
☐ Notice of Draftsperson's Patent Drawing Review, PTO-948 ☐ Other			

Office Action Summary

U. S. Patent and Trademark Office PTO-326 (Rev. 3-97)

Part of Paper No.

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1. Claims 1-5 are rejected under 35 U.S.C. 112 (second paragraph) as being indefinite in the recital of "controlling the changing speed of temperature and/or keeping temperature" (emphasis added). The aforementioned emphasized terms do not have a well-defined scope and meaning.

2. Claims 1-4 are rejected under 35 U.S.C. 103 as being unpatentable over Furuya et al (U.S.P. 5,981,115).

Applicants' specification describes reversible heat-sensitive paper wherein the heat-sensitive recording layer contains any known color former and any one of several color developers (see the specification at page 8, lines 8-27). Since the reversible heat-sensitive paper of Furuya et al. employs the same color reactants (see column 17, lines 18-20), it is inherent that the Furuya et al. article functions in the manner claimed by applicants.

3. Claims 1-5 are rejected under 35 U.S.C. 103 as being unpatentable over applicants' statement of the prior art.

As noted above, applicants' specification discloses reversible heat-sensitive paper wherein the heat-sensitive recording layer contains any known color former and any one several color developers. These color developers are all known compounds which are disclosed in various foreign patents listed at the bottom of page 8 of applicants' specification. As color developers, these compounds are employed with known color developers. Since these prior art color

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reactants are the same as those employed in applicants' specification, it is inherent that the prior art reactants function in the manner claimed by applicants.

Hess/nt

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BRUCE H. HESS PRIMARY EXAMINER

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